

EDUCATION

- University of Oxford**, DPhil in Cyber Security 2014 – now
Dissertation: *Adversarial Electromagnetic Interference*, supervised by Prof. Kasper B. Rasmussen
Funding: Clarendon Scholarship, EPSRC Studentship, CDT in Cyber Security Award
Kellogg College Cyber Security Scholarship
- University of Cambridge**, MPhil in Advanced Computer Science 2013 – 2014
Marks: 87.95%, Distinction, Ranked Second in Year
Project: *Distributed Massive Graph Triangulation*, supervised by Dr. Eiko Yoneki
Funding: Goulandris Scholarship at Magdalene College
- Princeton University**, AB in Mathematics *with Certificate in Applications of Computing* 2009 – 2013
GPA: 3.978/4.0, Summa Cum Laude, Phi Beta Kappa
Thesis: *A Practical Variant of Cuckoo Hashing*, supervised by Prof. Robert Sedgewick
- Anatolia College**, IB Diploma 2007 – 2009
GPA: 45/45 (Top 0.19% Worldwide), Valedictorian

PEER-REVIEWED PUBLICATIONS

- I. Giechaskiel**, C. Cremers, and K. Rasmussen, *On Bitcoin Security in the Presence of Broken Cryptographic Primitives*. European Symposium on Research in Computer Security (ESORICS) 2016
- I. Giechaskiel**, G. Panagopoulos, and E. Yoneki, *PDTL: Parallel and Distributed Triangle Listing for Massive Graphs*. International Conference on Parallel Processing (ICPP) 2015

INTERNSHIPS

- Jump Trading International Ltd.**, FPGA Intern (*FPGA Research & Development*) Summer 2017
Auto-generated and simulated SystemVerilog and Lua parsers in Python using their XML specifications, reducing latency and improving timing
Implemented the C++ interface between the FPGA and the host and wrote extensive Google Tests (GTests)
- Microsoft Research**, Research Intern (*Embedded Systems and Reconfig. Computing*) Summer 2016
Discovered a novel source of information leakage on different FPGA devices based on delays of *long wires*
Designed extensive experiments characterizing the phenomenon using Verilog, Python, and PowerShell
- Dropbox, Inc.**, Software Engineer Intern (*Product Abuse and Security*) Summer 2014
Developed a fully automated malware detection and takedown system in Python with false positive fail-safes
Improved other anti-abuse measures, and created dashboards to monitor the effectiveness of my tools
- Microsoft Corporation**, Software Development Engineering Intern (*Windows Security*) Summer 2012
Built a C++ runtime analysis tool to find DLL hijacking and related security and reliability vulnerabilities
Enhanced the existing defect analysis tools, fixing bugs, and adding capabilities in the process
- Bloomberg L.P.**, Financial Software Developer Intern (*Data License*) Summer 2011
Created a three-tiered system in C++ and JS to aggregate data and provide time estimates for client requests
Developed a dynamic interface and database project to show usage and revenue for Data License clients

ACADEMIC AWARDS

- University of Oxford**, Clarendon Scholarship 2014
Full funding awarded on academic merit to around 140 new Oxford graduate students across all disciplines
- Princeton University**, Peter A. Greenberg '77 Memorial Prize 2013
Awarded by the Mathematics department for "outstanding accomplishments in mathematics"
- Princeton University**, Student Teaching Award 2013
Awarded by the Computer Science department during graduation
- Princeton University**, Early Phi Beta Kappa Election 2012
Early election to the Phi Beta Kappa academic honor society, extended to the 16 best Princeton '13 students

Princeton University , Shapiro Prize for Academic Excellence	2011
Awarded to 42 students in the Princeton class of 2013 to recognize “outstanding academic achievement”	
International Mathematical Competition for University Students , Second Prize	2010
International Mathematical Olympiad , 2 Honorable Mentions	2008 – 2009
Balkan Mathematical Olympiad , 2 Bronze Medals	2008 – 2009
Greek National Mathematical Olympiad , 2 Gold, 1 Silver, and 1 Bronze Medals	2006 – 2009

TEACHING POSITIONS

University of Oxford , Teaching Assistant	2016 – 2017
Marked exercises for Graph Theory (Math B8.5) and led exercises for Secure Programming (MSc in Soft. Eng.)	
University of Oxford , Tutor	2016
Demonstrated problems in class for Communications Theory (Math B8.4)	
Princeton University , Grader	2011 – 2013
Graded programming and theory assignments for Algorithms and Data Structures (COS226), Introduction to Graph Theory (MAT306/COS342), Artificial Intelligence (COS402), and Theory of Algorithms (COS423)	
Princeton University , Lab Teaching Assistant	2012 – 2013
Helped students with debugging in Operating Systems (COS318) and other courses (COS126/217/226)	

CAPTURE-THE-FLAG AND HACKATHONS

Oxford Computer Science Capture-the-Flag Team Ox002147 , Captain and Co-Founder	2016 – now
Recovered the majority of flags/points for the team, specializing in reverse engineering and cryptography problems. The team is ranked top 100/10,000+ teams globally (https://ctftime.org/team/26882)	
Deloitte CTF Final , First Place	2016
First place (£3,000 prize) with the 5-person Ox002147 team against 8 university teams (17 in qualifier)	
BAE Systems Varsity CTF , First Place	2016
First place with the 6-person Ox002147 team against 25 teams from Cambridge and Oxford	
Tripwire VERT Cyber Security CTF Contest , Second Place	2015
Placed second out of over 130 contestants. One of only two contestants to recover all flags	
Dropbox Hack Week , “It’s Good to Be Here” Award	2013
Led a 3-person team to create the winning “Print from Android” app in the 5-day hackathon	
Microsoft Windows Princeton Hackathon , First Prize	2013
Created a “Collaborative Paint” Windows 8 application in a team of 3 over the course of 36 hours	

OTHER ACTIVITIES AND AFFILIATIONS

Oxford Competitive Computer Security Club , President and Co-Founder	2017 – now
Oxford University Greek Society , President	2016 – now
Princeton Alumni UK , Communications & Technology Board Chair	2015 – now
Princeton University , Volunteer Interviewer for Applicants from Greece and the UK	2014 – now
Ross Mathematics Program , Scholarship Student and Junior Counselor Alumnus	2007 – 2008
Camp Rising Sun , Alumnus	2006

TECHNICAL SKILLS

Programming Languages

Python, Bash/Zsh, PowerShell, Assembly, C, C++, Java, PHP, JavaScript, SQL, Verilog, Mathematica, MATLAB

Theoretical Background

Reverse Engineering and Cryptography, Embedded Systems, Microcontrollers, and FPGAs, Network and Security Protocols, Algorithms and Complexity Theory, Combinatorics and Graph Theory